

Title (en)

Machine for fitting and removing the wheel tyres of vehicle

Title (de)

Maschine zum Anbringen und Abnehmen der Radreifen eines Fahrzeugs

Title (fr)

Machine pour placer et enlever des pneus de jantes de véhicules

Publication

EP 2233325 A1 20100929 (EN)

Application

EP 10155820 A 20100308

Priority

IT MO20090078 A 20090327

Abstract (en)

The machine (1) for fitting and removing the wheel tyres of vehicles comprises: - a base frame (2a, 2b, 2c, 2d) supporting grip and rotation moving means (3) for gripping and rotation moving at least a rim (C) of wheels (R) for vehicles with at least a retention flange (F') for at least a bead (T') of a tyre (P) to be fitted/removed on/from the rim (C); - an operating head (4) which is associable with the base frame (2a, 2b, 2c, 2d), is positionable near the retention flange (F') and comprises: - a guiding nut (6) of the bead (T'); - a guiding wing (7) of the bead (T'); - a grip tool (8) for gripping the bead (T') which is arranged between the guiding nut (6) and the guiding wing (7) and comprises a shaped active extremity (9) with a substantially oblique profile (11, 12) suitable for cooperating with the guiding nut (6) for guiding the bead (T'); and - movement means (10) for moving the grip tool (8) between a first guiding configuration of the bead (T'), in which the active extremity (9) is arranged near the guiding nut (6) and near the guiding wing (7), and a second grip configuration of the bead (T'), the movement means (10) being suitable for moving the grip tool (8) from the first configuration to the second configuration along a first trajectory (13) and from the second configuration to the first configuration along a second trajectory (14) substantially different from the first trajectory (13).

IPC 8 full level

B60C 25/138 (2006.01)

CPC (source: EP US)

B60C 25/0578 (2013.01 - EP US); **B60C 25/138** (2013.01 - EP US)

Citation (applicant)

- EP 1593533 A2 20051109 - CORGHI SPA [IT]
- US 2002162633 A1 20021107 - MIMURA YOSHIO [JP]

Citation (search report)

- [X] US 2002162633 A1 20021107 - MIMURA YOSHIO [JP]
- [AD] EP 1593533 A2 20051109 - CORGHI SPA [IT]
- [A] EP 1944177 A1 20080716 - SNAP ON EQUIP SRL UNICO SOCIO [IT]

Cited by

EP2463125A1; EP2977235A1; ITMO20120009A1; EP2735457A1; IT201700006108A1; EP2269841A1; ITMI20102172A1; ITMO20130138A1; ITMO20110316A1; EP2599648A1; CN102529615A; ITVR20100233A1; US9610812B2; US8973640B1; WO2013108181A1; EP4011652A1; US8910693B2

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Designated extension state (EPC)

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DOCDB simple family (publication)

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